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POWER OF ATTORNEY and CORRESPONDENCE ADDRESS INDICATION FORM	Application Number	10/692,020
	Filing Date	October 22, 2003
	First Named Inventor	Mark N. Billinghamurst
	Title	TRACKING A SURFACE IN A 3-DIMENSIONAL SCENE USING NATURAL VISUAL FEATURES OF THE SURFACE
	Art Unit	2621
	Examiner Name	Not Yet Assigned
	Attorney Docket No.	371818001US1

I hereby appoint:

☒ Practitioners associated with the Customer Number

OR

☐ Practitioner(s) named below:

Name	Registration Number	Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

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I am the:

☐ Applicant/Inventor.☒ Assignee of record of the entire interest. See 37 CFR 3.71.
*Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).***SIGNATURE of Applicant or Assignee of Record**

Name Mark Nathan Billinghamurst

Signature *M. N. Billinghamurst*Date *3/3/2004*Telephone *+64-27-444-0595*

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☒ *Total of 1 forms are submitted.

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STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: Billinghurst et al.Application No./Patent No.: 10/692,020Filed/Issue Date: October 22, 2003Entitled: TRACKING A SURFACE IN A 3-DIMENSIONAL SCENE USING NATURAL VISUAL FEATURES OF THE SURFACEARToolWorks, Inc.

, a

Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.

The extent (by percentage) of its ownership interest is _____ %
 in the patent application/patent identified above by virtue of either:

- A. [x] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

- B. [] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____
 The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
 The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
 The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

[] Additional documents in the chain of title are listed on a supplemental sheet.

- [] Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

3/3/2004

Date

Mark Nathan Billinghurst

Typed or printed name

+ 64-27-444-0595

Telephone Number

M Billinghurst

Signature

Authorized Signer for Assignee

Title

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV336678035US, in an envelope addressed to: MS Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: 3/16/2004Signature: Sandy Reisman

(Sandy Reisman)

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made this 3rd day of March, 2004, by Mark N. Billingham, residing at 73A Wharenu Road, Christchurch 82004, NEW ZEALAND, and Hirokazu Kato, residing at 14-1-1237 Hirakata-Kamincho, Hirakata, Osaka, 573-0037, JAPAN (hereinafter referred to as Assignors);

WHEREAS, Assignors have invented certain new and useful improvements in TRACKING A SURFACE IN A 3-DIMENSIONAL SCENE USING NATURAL VISUAL FEATURES OF THE SURFACE, set forth in a Patent application for Letters Patent of the United States, already filed on October 22, 2003 as U.S. Application No. 10/692,020; and

WHEREAS, ARTToolWorks, Inc., a Corporation organized under and pursuant to the laws of Washington having its principal place of business at 8239-23rd Avenue N.E., Seattle, Washington 98115 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the

same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order

to comply with the rules of the United States Patent and Trademark Office for
recording of this document:

PERKINS COIE LLP

All practitioners at Customer Number 25096 (listed here):

Stephen E. Arnett	47,392	Steven S. Kelley	43,449	Michelle C. Sarruf	55,828
Bret A. Bocchieri	31,739	Jonathan P. Kudla	47,724	Tim R. Seeley	53,575
Rodger K. Carreyn	50,774	Steven D. Lawrenz	37,376	Lauren C. Sliger	51,086
Brian R. Coleman	39,145	Jacqueline F. Mahoney	48,390	Carina M. Tan	45,769
Christopher J. Daley	34,807	Shaalu Mehra	44,934	Mark A. Thomas	37,953
Peter J. Dehlinger	28,006	Judy M. Mohr	38,563	Larry W. Thrower	47,994
David P. Devlin	55,876	Chun M. Ng	36,878	Glenn E. Von Tersch	41,364
David B. Dort	50,213	Kenneth H. Ohriner	31,646	John M. Wechkin	42,216
David T. Dutcher	51,638	Paul T. Parker	38,264	James A.D. White	43,985
Leeann Gorthey	37,337	Maurice J. Pirio	33,273	Michael J. Wise	34,047
Joseph P. Hamilton	51,770	Aaron J. Poledna	54,675	Robert G. Woolston	37,263
Paul L. Hickman	28,516	Rajiv P. Sarathy	55,592	James J. Zhu	52,396
Edward S. Hotchkiss	33,904				

AND Assignors acknowledge an obligation of assignment of this invention to
Assignee at the time the invention was made.

This Assignment may be executed in counterparts.



Mark M. Billingham

Hirokazu Kato

to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

PERKINS COIE LLP

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This Assignment may be executed in counterparts.

Mark N. Billingham

加藤 博一

Hirokazu Kato

WITNESSES TO SIGNATURE BY Mark N. Billingham

1.



Signature

3/03/04
Date

Miranda Hogan

Print Name

118 Finnsarby Pl

Address

Sumner Christchurch NZ

Address

2.



Signature

3/03/04
Date

THOMAS A. FUNNELL

Print Name

39A HAMILTON AVE

Address

CHRISTCHURCH NZ

Address

WITNESSES TO SIGNATURE BY Hirokazu Kato

1. Me Nakatani 4 Mar. 2004
Signature Date
MIE NAKATANI
Print Name
2-3-5-305 Sonenishimachi
Address
Toyonaka, Osaka, 581-0801, Japan
Address

2. 大野 華子 4 Mar. 2004
Signature Date
Hanako Ohno
Print Name
1-5-12-204 Iguchido
Address
Ikeda, Osaka, 563-0023, Japan
Address

* * * * *



Declaration for Patent Application English Language Declaration		Attorney Docket No.	371818001US1	
		First Named Inventor	Mark N. Billinghamurst	
COMPLETE IF KNOWN:				
<input type="checkbox"/> Submitted with initial filing <input checked="" type="checkbox"/> Submitted after initial filing (surcharge required 37 CFR 1.16(e))		Application No.	10/692,020	
		Filing Date	October 22, 2003	
		Art Unit	N/A	
		Examiner	Not Yet Assigned	

As a below named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TRACKING A SURFACE IN A 3-DIMENSIONAL SCENE USING NATURAL VISUAL FEATURES OF THE SURFACE

the specification of which

☐ is attached hereto
OR
☒ was filed on 10/22/2003
as United States Application No. or PCT International Application No. 10/692,020
and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the National or PCT International filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign applications(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's right certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)			Priority Not Claimed	Certified Copy Attached	
				YES	NO
(Number)	(Country)	(Filing Date)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(Number)	(Country)	(Filing Date)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(Number)	(Country)	(Filing Date)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional prior foreign applications are listed on a supplemental data sheet attached hereto.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Mark N. Billingham	
Sole or first inventor's signature <i>M Billingham</i>	Date 3/3/2004
Residence Christchurch, New Zealand	
Citizenship New Zealand	
Mailing Address 73A Wharenu Road Christchurch 82004 NEW ZEALAND	

Full name of second inventor Hirokazu Kato	
Second inventor's signature	Date
Residence Osaka, Japan	
Citizenship Japan	
Mailing Address 14-1-1237 Hirakata-Kaminocho Hirakata, Osaka 573-0037 JAPAN	

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Dated: 3/16/2004 Signature: *Sandy Reisman* (Sandy Reisman)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Mark N. Billingham	
Sole or first inventor's signature	Date
Residence Christchurch, New Zealand	
Citizenship New Zealand	
Mailing Address 73A Wharenu Road Christchurch 82004 NEW ZEALAND	

Full name of second inventor Hirokazu Kato	
Second inventor's signature 加藤 博一	Date 4 Mar. 2004
Residence Osaka, Japan	
Citizenship Japan	
Mailing Address 14-1-1237 Hirakata-Kaminocho Hirakata, Osaka 573-0037 JAPAN	

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Dated: 3/16/2004 Signature:  (Sandy Reisman)